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The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Applied Mathematics

**CUR Matrix Decomposition and Subspace
Segmentation**

by

Prof. Keaton HAMM
Department of Mathematics,
Vanderbilt University

Abstract

The subspace segmentation problem seeks to classify, or cluster, data in a high-dimensional space that is drawn from the union of much smaller dimensional subspaces. One method of attack for this problem is to find a similarity matrix from the data which identifies the subspaces. This talk will discuss an intriguing matrix decomposition method called CUR decomposition, and describe how most of the known similarity matrix methods are special cases of this general decomposition in the case that the subspaces are independent.

Date: ***Saturday, 19 Aug 2017***

Time: ***10:00a.m. – 11:00a.m.***

Venue: ***Room 1505, Academic Building***
(near Lifts 25 & 26), HKUST

All are welcome!